

BUBBLE REMOVAL METHOD AT HEAD FOR INK JET RECORDER

Patent Number: **JP55063276**

Publication date: **1980-05-13**

Inventor(s): **SHIMURA MICHIO; others: 02**

Applicant(s):: **FUJITSU LTD**

Requested Patent: **JP55063276**

Application Number: **JP19780136416 19781106**

Priority Number(s):

IPC Classification: **B41J3/04**

EC Classification:

Equivalents:

Abstract

PURPOSE: To separate dirts or the like in the nozzle section and bubbles attached to the ink chamber wall easily and accurately away from the walls by giving vibration to the ink jet head with a vibrator put thereon.

CONSTITUTION: Ink chambers 3 and 5 are provided inside a nozzle 4 for injecting ink and with the pressure applied to the ink in the ink chambers, the ink is injected to the recording surface. A vibrator 11 is pressed in contact with the front of a head thus arranged by means of a spring 13 so that it is vibrated by an ultra sonic wave at a resonance frequency. Consequently the front plate 1 of the head is caused to vibrate and forcedly separate bubble A, dirts and deposits of the ink away from the front plate 1. Then, they are isolated in the ink in an outer chamber 3 and discharged to a discharge port 9 on the flow of the ink. The surface of the vibrator 11 is covered with a coat of resin 12 or the like to repel water.

Data supplied from the esp@cenet database - I2

昭和55-63276(3)

き、従来インクジェット記録装置の欠点とされていた問題が一挙に解消される。

4. 図面の簡単な説明

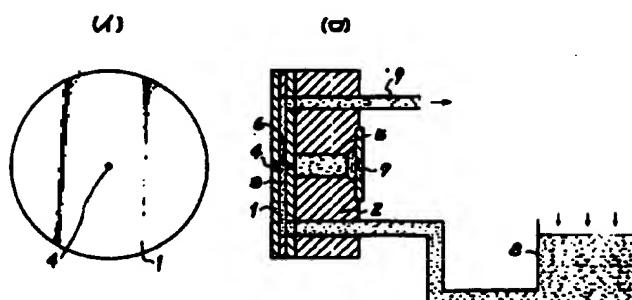
第1図(a)(b)は、インクジェットヘッド部の正面図と中心横断面図、第2図はそのノズル部の拡大断面図、第3図は本発明方法の実施状態の中心横断面図である。

図において、1は前面板、3は外室、5は内室、4・6はノズル、7は加圧用圧電素子、A・A'は気泡、10は気泡除去装置本体、11は振動体、12はコーティング膜である。

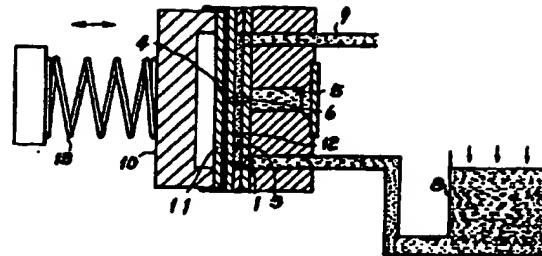
特許出願人 富士通株式会社

代理人弁理士 青柳 礼

第1図



第3図



第2図

